



THE NATURE OF VOLUNTEERING

Vol 1. No. 16

EXPLORE THE WONDERS OF NATURE - VOLUNTEER

Summer 2003



DO YOU KNOW -

What species of shorebirds are using the saltmarshes?

While doing bird surveys (for the OMWM Study) out in the Oyster Creek saltmarsh area, our wildlife biologist, Jorge Coppen, has seen lots of shorebirds. In a recent survey conducted on May 23, he counted the following:

- 117 Dunlins
- 51 Short-billed Dowitchers
- 19 Black-bellied Plovers
- 11 Willets
- 6 Least Sandpipers
- 2 Greater Yellowlegs

Other relatively abundant birds were Sharp-tailed Sparrows (18) and Seaside Sparrows (12), while ten were counted as "unidentified sparrows". Other observations included Barn Swallows, Clapper Rails, Forster's Terns, Great Egrets, Snowy Egrets, American Black Ducks, Boat-tailed Grackles, Herring Gulls and Laughing Gulls.

- Jorge Coppen



AMERICA'S NATIONAL WILDLIFE REFUGES ...

where wildlife comes naturally!

CONGRATULATIONS TO DR. ED BRISTOW



The Greater Atlantic City Region Tourism Council is one of six state-chartered councils, member-run groups promoting tourism in their regions and the state. The GACRTC's region is Atlantic County. It serves as a primary source of information for visitors planning a day trip or extended-stay vacation in Atlantic City or in the surrounding area. Forsythe National Wildlife Refuge and Atlantic Audubon are partners in this organization.

On Tuesday, June 27th, the GACRTC held it's annual installation luncheon at the Smithville Inn. New Board members were sworn in and awards were presented to those partners whose outstanding work and support to the council contributed to tourism in this region. We are proud and honored to announce that Dr. Bristow was presented the Eco-Tourism Award for the year 2003.

Pictured (left to right) is GACRTC Vice-Chair Don Kelly operator of the Dr. Jonathan Pitney House Bed & Breakfast of Absecon, Dr. Bristow, and immediate past chairperson, Anthony Coppola of the Towne of Historic Smithville.



Check out ACTourism.org to learn more about this organization.

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Future Fishermen and Ladies get "Hooked On Fishing" at Forsythe



On Saturday, June 7th, Forsythe Refuge held its first annual Fishing Derby.

The day started drearily and went downhill from there, but in spite of the constant rain and occasional torrential downpours, everyone had a great time. Forty children, ages 5 to 14, and their adult partners, joined Refuge staff and volunteers on the bank of Lily Lake to take part in National Boating and Fishing Week.

At 10:00 sharp, a NJ Division of Fish and Wildlife truck full of fish pulled up to stock the lake with chain pickerel, blue gills, sunfish, and channel catfish.

The children not only learned fishing skills, but with the help of AmeriCorps/Watershed Ambassador, Tammy West, they also discovered how pollution affects our environment. When the kids tired of fishing, they could stop by the registration tent to speak with Officer Dennis Lupton from the Galloway Township Police Department, or participate in the minnow races held by The Gutter Guys. The children were then invited to bring their fishing derby t-shirts to the Noyes Museum where they could personalize them by doing fish printing. Friends of Forsythe provided hotdogs and drinks to complete the day.

Prizes and plaques were awarded for the largest fish caught, and every child left with a fishing pole and other goodies such as disposal cameras (and free developing) from MotoPhoto of Northfield, McDonalds coupons, a free pass to return to the Refuge, plus much, much more!

Many thanks for everyone who helped and a special thanks to our many partners and sponsors: Absecon Saltwater Sportsman Association, WalMart, Zebco, Chestnut Neck Boat Yard, Absecon Bay Sportsman Center, Up the Creek Marina, Atlantic City Surf, Dick's Sporting Goods and The Gutter Guys.



International Migratory Bird Day

article by John Williamson

IMBD was created in 1993 by visionaries at the Smithsonian Migratory Bird Center and the Cornell Laboratory of Ornithology. Now under the direction of the National Fish and Wildlife Foundation and U.S. Fish and Wildlife Service, IMBD continues to focus attention on one of the most important and spectacular events in the life of a migratory bird — its journey between its summer and winter homes. Today, it is celebrated in Canada, the U.S., Mexico and Central America through bird festivals and bird walks, education programs, and Bird Day!

To celebrate IMBD 2003, Edwin B. Forsythe Wildlife Refuge held its Fifth Annual Series of Birding Contest on Saturday May 10th, providing visiting teams from 2 to 4 casual birders, friends, and families the opportunity to take part in the great international sport of birding. Over 100 contest packets were distributed at the start of the refuge auto tour by the Series of Birding (SOB) Staff of Audubon volunteers consisting of Umpires, Judges, and Scorers. The morning fog lifted as the day wore on. Eighteen team entries were returned with 45 participants registered.

The three top winning teams produced very respectable scores. Scores do not indicate the number of species recorded. Scoring is weighted according to the relative abundance of individual bird species observed on the refuge during the current season. First Place went to the Anderson Family of Hopewell, NJ with a score of 187; Second Place went to the Mangino Family of Cedar Bonnet Island, NJ with a score of 179; and Third Place went to the Hall Family of Pennington, NJ with a score of 169. Certificates of recognition, place ribbons, and fun prizes will be sent to the winning teams. The Refuge Series of Birding Contest is held twice annually, on International Migratory Bird Day in May and on National Wildlife Refuge Day in October. The IMBD Series of Birding Staff consisted of Kris Arcuri, Linda Keyser, John Kenney, John Matteoni, John and Kathy Petersen, Bob Stiefbold, Tom Touhy, Maurice Tremblay, and John Williamson, contest factotum. Refuge Staffers Sandy Perchetti and Cindy Heffley provided logistical support.

Look for announcement of the next Refuge Series of Birding this fall and join in the fun.



Answers to crossword puzzle on page 8

- Across: 3. producer 4. mudflat 8. phragmite 9. biweekly 10. slough
 11. waterfowl 12. detritos 13. wetland 14. ecosystem 15. salinity
 Down: 1. refractometer 2. zooplankton 5. decompose 6. brackish
 7. halophyte 8. phytoplankton

article by John Bianchi, Audubon Society

Ithaca, NY - Bird enthusiasts across North America submitted almost 50,000 checklists totaling more than four million birds during the Great Backyard Bird Count, February 14 through 17, 2003. The event, one of the largest citizen-science projects in the world, documented a regional decline of at least one bird species that may be the result of West Nile virus in those regions.

The Great Backyard Bird Count (GBBC), developed and maintained by the Cornell Lab of Ornithology and the National Audubon Society, with sponsorship from Wild Birds Unlimited, asked people across the U.S. and Canada to watch birds in their backyard, local park, or other locale, and to submit their sightings to <http://www.birdsource.org/gbbc>. The online aspect of the count means birders quickly see how their results complement the continent-wide picture. Now, Cornell and Audubon offer these participants the ability to record sightings throughout the year with the launch of eBird.

This year's GBBC documented the whereabouts of 512 species, one of which showed declines in some areas compared to previous years. American Crows were reported in alarmingly fewer numbers in Illinois and Ohio, where West Nile virus has had a strong presence. "This decrease may or may not be related to West Nile, but the situation is certainly something we need to pay attention to," says John Fitzpatrick, director of the Cornell Lab of Ornithology. Crows seem to be particularly vulnerable to the virus.

Other species showed increases this year. GBBC participants in the eastern U.S. counted more Dark-eyed Juncos than they had since 2000, perhaps because a massive snowstorm hit the eastern seaboard during the weekend of the count, driving birds to feeders in high numbers. That same snowstorm apparently held early migrants like Red-winged Blackbird, Eastern Meadowlark, and American Woodcock farther south, compared to previous years.

In the West, Mountain Bluebirds were reported farther south than last year, and all of the rosy finches (Black, Gray-crowned, Brown-capped) were documented farther north. In previous years, GBBC maps of Eurasian Collared-Dove, a species introduced in the Bahamas before reaching Florida, showed the species spreading quickly northwestward. This year, the maps show no change, suggesting a slow down in the rate at which the bird's range is spreading.

The GBBC was developed to help monitor the abundance and distribution of birds in late winter, helping researchers spot alarming trends before situations become critical. "As we see rapid changes in our environment, like the spread of West Nile virus and shifts in species' ranges, bird monitoring projects such as the

Great Backyard Bird Count become increasingly important," says Frank Gill, Audubon's vice president for science. "We hope that the tens of thousands of people who participated in the Great Backyard Bird Count will begin submitting their observations to our latest online monitoring tool, eBird."

eBird, <http://www.birdsource.org/ebird>, lets birders submit their sightings over the Internet to a vast database anytime, anywhere. They can create their own pull-down menu of their favorite birding locales by plotting their

location on a map. They can also choose from the list of birding hot spots already created for each state and province. Their reports are pooled for access in any number of ways. They can look at their own reports for a given location, or on at certain date. They can sort by species. They can even view sightings made by other birders while their own data are made accessible to others. "eBird is a dream come true," says Fitzpatrick. "There's nothing else out there that lets you input your bird sightings and manage them the way you want to, while at the same time making them available to scientists, conservationists, educators-anyone with an

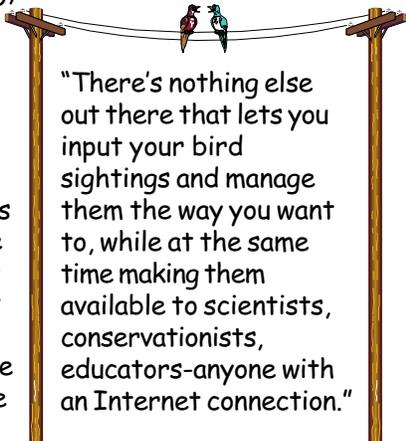
Internet connection. I enter my own reports daily - I'm hooked."

Birders are invited to try eBird right away, and to view results of the Great Backyard Bird Count. Top ten lists of all sorts are available at the web site, as are maps of every species reported. Results from previous years are also available.

Next year's Great Backyard Bird Count will take place February 13 - 16, 2004.

The Cornell Lab of Ornithology is a membership institution interpreting and conserving the earth's biological diversity through research, education, and citizen science focused on birds.

Audubon is dedicated to protecting birds and other wildlife and the habitat that supports them. Our national network of community-based nature centers and chapters, scientific and educational programs, and advocacy on behalf of areas sustaining important bird populations, engage millions of people of all ages and backgrounds in positive conservation experiences.



"There's nothing else out there that lets you input your bird sightings and manage them the way you want to, while at the same time making them available to scientists, conservationists, educators-anyone with an Internet connection."



UPCOMING EVENTS

Annual Volunteer Awards Celebration
Watch for your invitation.

Annual August Field Trip - does anyone have a suggestion? Call Sandy at 609-748-1535

Stay Focused Photo Club meets July 19 and August 16
9:30am refreshments - 10:00am meeting

National Wildlife Refuge System Week October 12-18

What an exciting time to be connected with the refuge system! On March 14th of this year, the National Wildlife Refuge System celebrated its 100th anniversary. Special Events took place in each field station and region across the country. While we continue to celebrate the 100th birthday throughout this year, and look forward to the next 100, it is also a time to reflect on our past.



The Service's origins date back to 1871, when Congress established the U.S. Fish Commission to study the decrease of the nation's food fishes and recommend ways to reverse the decline. Meanwhile, in 1885, Congress created an Office of Economic Ornithology in the Department of Agriculture. The office studied the food habits and migratory patterns of birds, especially those that had an effect on agriculture. This office gradually grew in responsibilities and went through several name changes until finally renamed the Bureau of Biological Survey in 1905.

In addition to studying birds and mammals, the Survey's responsibilities included managing the nation's first wildlife refuges, controlling predators, enforcing wildlife laws, and conserving dwindling populations of migratory birds. The Bureaus of Fisheries and Biological Survey were transferred to the Department of the Interior in 1939. In 1940, they were combined and named the Fish and Wildlife Service.

Further reorganization came in 1956 when the Fish and Wildlife Act created the United States Fish and Wildlife Service and established two bureaus, Sport Fish and Wildlife and Commercial Fisheries. In 1970, the Bureau of Commercial Fisheries was transferred to the Department of Commerce and renamed the National Marine Fisheries Service.

For many years the Service was the principal federal wildlife and fisheries research agency. In the 1940's, Service research biologists conducted some of the first investigations into the effects of the pesticide DDT in wildlife. Service researchers also revealed the life cycle of the parasite that causes whirling disease in trout. In addition, Service biologists developed many of the captive breeding techniques that have benefited such rare species as the whooping cranes, California condors and black-footed ferrets. The Service's research function



briefly became an independent agency and was eventually reorganized as part of the U.S. Geological Survey in 1996. Notable former employees include Jay N. "Ding" Darling, designer of the first Federal Duck Stamp, and Rachel Carson, author of *Silent Spring*. Today, the Service employs approximately 8,000 people at facilities across the country including a headquarters office in Washington, D.C., seven regional offices, and nearly 700 field units. Among these are national wildlife refuges, national fish hatcheries and management assistance offices, law enforcement and ecological services field stations.



VOLUNTEER OPPORTUNITIES - Bring a Friend

- Wildflower Garden
- Visitor Center Talks
- Photo Club
- Puppeteers
- Environmental Education
- Trail Maintenance
- Friends of Forsythe
- Help with census of plant or animal populations
- Special Events
- Clean Up Litter
- Lead bus tours on Wildlife Drive

If you're interested in volunteering for any of these projects, or if you have other ideas, please let us know by completing this form and sending it to us:

Name: _____
 Address: _____
 City, State, Zip: _____
 Phone: (____) _____

Edwin B. Forsythe NWR
 attn: Sandy Perchetti
 Box 72, Great Creek Road
 Oceanville, NJ 08231



What a joy it's been for us who have been lucky enough to work with Pat while she volunteered at Forsythe NWR.

Before Pat left to go home to Ohio, we asked if she would write an article for our newsletter. These are her thoughts:



At the end of October last year, I attended a Service Elderhostel at Chincoteague, Virginia. Our group of twenty-nine seniors worked during the week building and placing bird boxes, thinning pine trees, building a porch on the front of the maintenance building, and cutting back brush from fencing. Although we were encouraged to try different projects, I ended up working for three days on bird boxes. After I made them, I also wanted to put them up, even though we worked in the rain doing it. I loved it. As my friend said, "I never had so much fun being wet and miserable."

The leader of the bird box project was a man who retired at fifty-six. He told us about his travels since then of volunteering for the United States Fish and Wildlife Service at different locations across the country. When I returned to Westerville, Ohio, where my home is, I checked out www.fws.gov, the web site he used to locate volunteer jobs. In addition, I made a list of the states I'd like to see but to which I've have never been - all near the ocean. Then on a map of the refuges across the country that the Fish and Wildlife Service sent me, I located the refuges in those states. On the Internet, I checked out each one and began eliminating. I had two requirements: volunteer housing needed to be available and volunteers were used to do wildlife surveys. The bird box leader told us about doing loon surveys at night and counting frog eggs among other things which sounded like activities I'd enjoy.

I came up with a list of wildlife refuges where I thought I'd enjoy working. On the top of my list was the Edwin B. Forsythe National Wildlife Refuge at Oceanville, New Jersey. I mailed an application and letter, and before I could write any others, Sandy Perchetti called. I could do all the surveys I'd like, she said, if I'd help with some writing they'd like to have done. So I came.

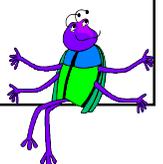
The first week I was here, I helped close Holgate Beach and counted birds with Audubon. Since then, I've walked all the trails, even some fire breaks. On one walk, I had to climb a fence four times to get around water - not an easy task for a senior citizens with artifi-

cial knees. I've helped conduct the water tests at the water control stations and collect the rain samples for the National Atmospheric Deposition Program. I've watched how air samples are collected to send to the Crocker Nuclear Lab at the University of California, Davis. Best of all, I've spent more time than I want to admit staring out the back windows of the Volunteer House at Lily Lake and watching deer, racoons, squirrels, ducks of all kinds, a family of Canada geese, a ruby-throated hummingbird, mute swans, several kinds of woodpeckers, dozens of egrets, and more songbirds than I can identify.

The most challenging job I've had at Forsythe has been writing an environmental education plan for school classes which tour the refuge. For me, having a task that challenges the mind after retirement is a good thing. When I was teaching, I didn't always have the time to make learning fun, but I did with this assignment. I've written two lesson plans for teachers of grades five through seven who bring their classes to the refuge. Both are concerned with habitat, the theme of the centennial education video produced by the US Fish and Wildlife Service. One plan is for Leeds Eco-Trail; the other looks at the importance of water to habitat and involves Wildlife Drive and Gull Pond. I envy those of you who will watch the lights come on in the eyes of the children who come here for the first time.

The Elderhostel leader said that a person couldn't meet any finer people than he'd met as he toured the refuges. I've also found that true. I hadn't been here long when Kris Arcuri called and volunteered to help me. What a gold mine of ideas! Plus a great editor. We've had a ball counting birds and walking trails. If you haven't watched and listened to Kris do the "Scat Rap," you've missed a real treat. Sandy Perchetti has dropped whatever she's working on to make tasks easier for me. To help me with one project, Jorge Coppen gave me the watch right off his arm. Ed Bristow, John Danzenbaker, and Steve Atzert willingly shared a wealth of knowledge and were loads of fun. Sue Tebbs encourages everyone here with her thoughtfulness, as does Ed Jones. Tony Geiger, the first intern to arrive, treated me to a turtle sundae at the Dairy Queen to celebrate the completion of the first EE plan. I'm stopping this list not for want of people to mention but because it sounds like the forward to a book, which I always skip. Suffice it to say, everyone at Forsythe has gone out of the way to be kind and helpful. As a result of my first extended stay at a wildlife refuge, I'm anxious to visit others, meet more wonderful people, and see places I've always wanted to go.

Thanks Pat, for your wonderful contributions. We really miss you!



New Housing Available in Oceanville

article by Cindy Heffley

There is a lot of development going on in Galloway Township and the areas surrounding the refuge boundaries. Many wooded areas are being leveled to make way for new homes and businesses, leaving no place for many birds and other wildlife to live. One new condominium recently raised in Oceanville is causing quite a commotion at the refuge. But it's not because the building is taking away housing for wildlife, but adding it. Did I mention the condominium is actually a new Purple Martin house?

With the new twelve-compartment house and upcoming four Super Gourds, there will be 60 available housing units for the Purple Martins. Considering that most of the compartments were used in previous years, this will help attract more birds to the refuge. This will mean that each of the current volunteer "landlords" will have their own house to monitor.

In the past, there have been a variety of volunteers assisting Blue Bird and Purple Martin volunteer Mike O'Brien with the task of monitoring the birds. Last year, three volunteers and I became monitors and enjoyed it so much that we are all doing it again this year. Those volunteers are Al Martens, Art Blatt, and Penny Klein.

Once the Purple Martins return from their winter home in South America, the monitoring begins. Purple Martins depend on human interaction. It's been reported that in the past, Native Americans would hang natural gourds near their drying meat to give the Purple Martins a place to live since they are very protective of their nests and young. When any animal would approach the drying meat, the Purple Martins would attack, preventing the animal from taking the meat. They also eat large amounts of bugs which helped the Native Americans.

The spring has been very wet and cool this year. We're all wondering when the sun will come out and when we will be able to put away our jackets. These are minor things compared to what the Purple Martins have to go through when the weather is cool and wet. With fog, cool mist, and rain, they aren't able to collect bugs to eat. This is especially a problem in the beginning of their stay here because they have used up much energy on their return trip from South America. This year we lost at least twenty Purple Martins in May due to starvation. As I write this during the first week of June, the birds appear to be doing better, although only a few nests have been started. As the weeks progress, we'll be able to see if the remaining birds will produce any young or not. Last year with the help of bird bander Allen Jackson we were able to band 106 young Purple Martins.

For more information on Purple Martins check out <http://www.purplemartin.org>



An open letter from a new friend -

The Audubon Society, endangered piping plover's & water salinity sampling. These are just a few of the fun and exciting things I was able to participate in at the Edwin B. Forsythe NWR. I can't thank these kind folks enough for providing me with the opportunity to learn so much. I'm returning home to Seattle, Washington with a much greater appreciation for birds and their wetlands. I feel I've gained much more than I was able to give to the Forsythe. You guys are the best! Thank you very much.

Becki Kao
anadrmos@attbi.com

Becki Kao is an independent sales and marketing consultant living in Seattle, Washington. Becki loves the outdoors and wanted to volunteer her time at the Forsythe NWR while visiting Oceanville, NJ for two weeks.

Fate of the Peregrine Falcon nest in 2003

article by Jorge Coppen

The Brigantine peregrine falcon nest failed this year. Volunteer Rich Koterba had reported on two peregrines frequently seen loafing at the "owl tower", and initially we thought we might have a new pair on the refuge. But, Jim Cavallo's observations that no birds were using the cross dike tower led us to believe they had moved. Behavioral reports from the owl tower revealed the birds were disinterested in nesting activities. By late May, Kathy Clark, Principal Zoologist with the New Jersey Division of Fish and Wildlife - Endangered and Nongame Species Program confirmed that other pairs in the state had chicks that were 2-3 weeks old. So, it was too late to form a clutch.

Upon Kathy's request, we had SCEP* student Cindy Coughenour climb the cross dike tower to investigate the possibility that a great horned owl might have usurped the cross dike tower box. Two peregrine falcon eggs were observed. Given the lack of incubation, Kathy Clark asked us to collect the eggs for analysis. On May 27, Volunteer Jim Cavallo and Biological Intern Lars Higdon found only one peregrine falcon egg in the box and recovered it. The egg was subsequently refrigerated.

* Look for information about the SCEP Program on page 7.

Kate Bollie and Chris Gruber - our Plover Interns. Their main duties include assisting in monitoring of the Piping Plover, a Federally listed bird species, on Holgate and Little Beach Island. They assist refuge biologist Vinny Turner in collecting nesting data of the plover and three other beach nesting birds (Least Tern, Black Skimmer and American Oystercatcher) at both nest locations.



Kate, from West Palm Beach Florida, graduated this year from Wheaton College with a B.A. in Sociology. Over the past few years, she has interned at three different refuges and this is the second summer she has spent working with Piping Plovers. Concerned about how different governments monitor endangered species that migrate across their borders, Kate will be attending American University in the fall to pursue an M.A. in Global Environmental Policy.



Chris Gruber, a resident of Tuckerton, NJ, graduated last month from Richard Stockton College in Pomona, NJ with a Bachelor of Science degree in Environmental Science and a minor in Photography. He has spent the past five summers working with the Rutgers Cranberry and Blueberry station in Chatsworth, and the Rutgers Marine Field station on a variety of projects. He has been very interested in getting experience working with birds and is presently working on the Piping Plover project. He plans to go on to graduate school and most likely will earn his degree in Wildlife Biology.

Becky Smith and Lars Higdon - our OMWM Interns -assist Refuge Biologist Jorge Coppen with Open Marsh Water Management (OMWM) mosquito control studies, monitoring coastal nesting birds (federally listed Piping Plover, Least Tern, Black Skimmer, and American Oystercatcher), salt marsh restoration, and reforestation management.

Rebecca (Becky) Smith is originally from Absecon, NJ, but now lives in Ocean City. She attended The Richard Stockton College of NJ for environmental science and just graduated this spring. Becky has been a volunteer at the refuge since September of 2002. After her internship here at Forsythe NWR she plans to hike the Appalachian Trail and then go back to graduate school for entomology (hopefully at the University of Massachusetts at Amherst).



Lars is a Senior at University of Wisconsin, majoring in Resource Management. His home town is Winfield, IL and this is the first time he's been "out East." He's very excited to be working for the USFWS and looks forward to a summer experiencing the wonderful sights this area has to offer.

Tony Geiger is our Outreach volunteer. He is stationed on the beach at the edge of a designated Wilderness area on Long Beach Island, NJ to greet visitors and promote a greater understanding of the Edwin B. Forsythe National Wildlife Refuge and the importance of its Holgate Unit. As one of New Jersey's last undeveloped barrier beaches, Holgate is an important and productive area for beach-nesting birds — including three New Jersey State-endangered beach-nesting bird species: the Least Tern, Black Skimmer, and the Piping Plover which is also a federally threatened shorebird. Tony provides alternative recreational and educational activities when the beach is closed; answers questions; and encourages appropriate behavior.



Tony lives in Langhorne, PA and is in the Honors Program at Arcadia University. He is presently a Junior majoring in Scientific Illustration. In the past, Tony has only been able to visit Forsythe NWR once or twice a year, and often wondered what it would be like to visit every day. Since beginning his internship, he says he hasn't been disappointed once - the people are great, the wildlife is amazing, and he's learning more and more every day!

Nyeema Harris is another new face you'll see around here, but not as an intern. She's a SCEP Student. The Student Career Experience Program (SCEP) provides work experience which is directly related to the student's academic program and career goals. Students in the SCEP may be noncompetitively converted to full time appointments following completion of their academic and work experience requirements. Nyeema is a senior at Virginia Tech, majoring in Wildlife Science. She is originally from Philadelphia, PA. She is interested in a career in carnivore conservation. Her plan is to study the ecology and behavior of various threatened and endangered carnivores and apply the information gathered to conservation strategies and management techniques.

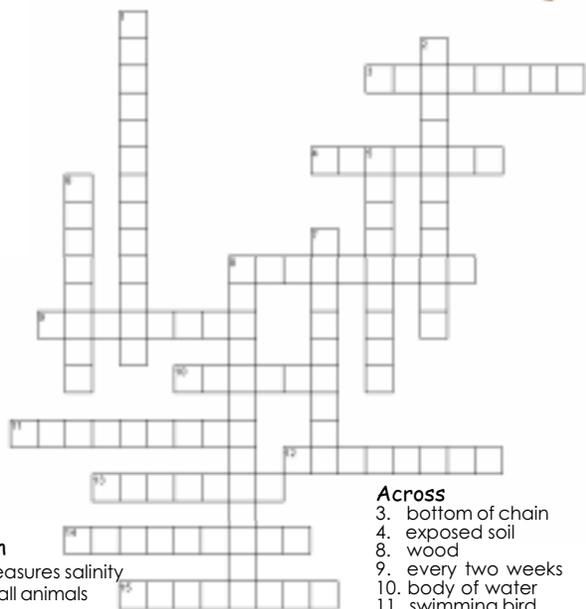


With all this talent and these ambitious goals, it looks like the future of this planet is in very good hands!

Watch for Fall's issue of our newsletter for more from our interns.

Habitat is Where It's At!

Test your habitat knowledge. Just see what kids can learn when they visit our refuge. This crossword puzzle is part of the lesson plan designed by Pat Rohrbaugh(see article page 5)



Down

1. measures salinity
2. small animals
5. decay
6. salty
7. salt loving
8. small plants

Across

3. bottom of chain
4. exposed soil
8. wood
9. every two weeks
10. body of water
11. swimming bird
12. dead plants
13. marsh
14. community
15. amount of salt

Answers on page 2

WHO'S ON STAFF?

Project Leader
STEVE ATZERT

Deputy Project Leader
DEBORAH LONG

Refuge Manager
Barnegat Division
KEVIN DESROBERTS

Biologists
JORGE COPPEN, VINNY TURNER

Refuge Law Enforcement Officers
BRIAN WILLARD, CHRIS PANCILA

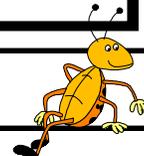
Administrative
Officer
MARTHA HAND

Office
Automation Assistant
CINDY HEFFLEY

Volunteer Coordinator
SANDY PERCHETTI

Outdoor Recreation Planner
VACANT

Maintenance Professionals
TOM HOLDSWORTH
TERRY MITCHELL



Edwin B. Forsythe National Wildlife Refuge
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609-652-1665
<http://.forsythe.fws.gov>

